Turner, Jr. et al.

[45] Date of Patent:

Jul. 28, 1987

[54]	MULTI-STATION VISCOUS LIQUID
	DISTRIBUTION SYSTEM

[75] Inventors: Herman E. Turner, Jr.; Robert D. Glowacki, both of Elyria, Ohio

[73] Assignee: Nordson Corporation, Amherst, Ohio

[21] Appl. No.: 852,368

[22] Filed: Apr. 15, 1986

[56] References Cited

U.S. PATENT DOCUMENTS

1,618,006	2/1927	Hawxhurst .	
3,000,053	9/1961	Hart .	
3,051,417	8/1962	Frost et al	
3,052,378	9/1962	Wright et al	
3,496,261	2/1970	Parr .	
3,692,214	9/1972	Liedberg et al	222/334
3,720,373	3/1973	Levey	239/127
3,885,739	5/1975	Tuttle	222/75 X
3,977,603	8/1976	Magee, Jr	239/76
3,997,080	12/1976	Langstroth	222/61
4,009,825	3/1977	Coon	318/305 X

4,009,974	3/1977	Scholl	418/181
4,165,818	8/1979	Bernard	222/53
4,227,069	10/1980	Gardner et al	222/146.5 X
4,245,759	1/1981	Baker et al	222/146.5
4,279,360	7/1981	Hauser	222/1
4,389,001	6/1983	Franklin	222/63

Primary Examiner—Joseph J. Rolla
Assistant Examiner—David H. Bollinger

Attorney, Agent, or Firm-Wood, Herron & Evans

[57] ABSTRACT

A system for dispensing multiple discrete streams of a high viscosity liquid material, and particularly, systems such as those for applying sealants to the seams of an automobile body on a production line. The system is provided with a multi-speed pump for supplying the viscous liquid from a reservoir at high pressure to a distribution manifold from which it is distributed at regulated rates to a plurality of extrusion guns through drop lines from the manifold. A motor speed control which is settable to a number of predetermined motor operating speeds which selects the speed of the multispeed pump in response to the combination of guns which is activated, so that the dispensing rate can remain the same regardless of which other guns are activated. Regulators which include volumetric metering pumps are included in the drop lines at each of the guns, with controls coordinated with the motor speed control.

20 Claims, 2 Drawing Figures

